## Index of Claims

Application/Control No.

CLEMENT B. GRAHAM

Reexamination

3692

09/827,031 Examiner

Applicant(s)/Patent under BOYLE ET AL Art Unit

Rejected Allowed

(Through numeral) Cancelled ÷ Restricted

Non-Elected N 1 Interference

Appeal Α o Objected

|            |          | _       |           | _        |          | _             |               | -             |               |          |          |        |          |               |         |        | _       | _       | _       |               |          |          |          | _             |         |         |          |          |          |               |          |
|------------|----------|---------|-----------|----------|----------|---------------|---------------|---------------|---------------|----------|----------|--------|----------|---------------|---------|--------|---------|---------|---------|---------------|----------|----------|----------|---------------|---------|---------|----------|----------|----------|---------------|----------|
| Claim Date |          |         |           |          |          |               |               | $\neg$        | С             | lair     | m        | Date   |          |               |         |        |         |         | П       | CI            | aim      | Date     |          |               |         |         |          |          |          |               |          |
|            | _        |         | П         |          |          | П             | П             | П             | Т             | 7        |          | Т      | _        | Т             | Т       | Т      | Т       | Т       | Т       |               | 7        |          | _        | Т             | Т       | Т       | Т        | П        |          | П             | $\neg$   |
| Final      | Original | 5/10/08 |           |          |          |               |               |               |               |          | Final    | П      | Original |               |         |        |         |         |         |               |          | Final    | Original |               |         |         |          |          |          |               |          |
| ιĒ         | - E      | 2       |           |          |          |               |               |               |               |          | 1        | П      | 윤        |               |         |        |         |         |         |               |          | 1 12     | -E       |               |         |         |          |          |          |               |          |
|            | 0        | l co    |           |          |          |               |               |               |               |          |          | П      | 이        |               |         |        |         |         |         |               |          |          | 0        |               |         |         |          |          |          |               |          |
|            | 1        |         |           |          |          | $\neg$        | $\neg$        | $\neg$        | $\neg$        | 7        |          | $\top$ | 51       |               | $\top$  | т      | $\top$  | T       |         |               | 7        |          | 101      |               |         |         | Т        |          | П        | $\neg$        |          |
|            | 2        |         |           |          |          |               |               |               | $\neg$        | ┪.       |          | $\top$ | 52       |               |         | T      | $\top$  | T       |         |               | ┪.       |          | 102      |               |         |         |          |          | П        | $\neg$        |          |
|            | 3        |         |           | $\neg$   |          | $\neg$        | $\neg$        | $\neg$        | $\neg$        | ┪.       |          |        | 53       |               |         | т      | $\top$  | т       |         |               | ┪.       |          | 103      | $\neg$        |         |         |          |          | П        | $\neg$        |          |
|            | 4        | П       |           | $\neg$   |          | $\neg$        | $\neg$        | $\neg$        | $\neg$        | ヿ        |          |        | 54       | $\neg$        | $\top$  | $\top$ | $^{+}$  | $^{+}$  |         | $\Box$        | _        |          | 104      | $\neg$        |         | _       | -        |          | П        | $\neg$        |          |
|            | 5        | Н       | $\forall$ | $\neg$   | $\neg$   | $\neg$        | $\neg$        | $\neg$        | _             | ┥.       |          |        | 55       | $\rightarrow$ | +       | +      | $^{+}$  | +       | -       | $\overline{}$ | _        |          | 105      | _             | $^{-}$  | _       | $^{+}$   |          | Н        | $\dashv$      | _        |
|            | 6        | Н       |           | $\neg$   |          | _             | $\neg$        | _             | _             | _        |          |        | 56       | _             | +       | +      | $^{+}$  | t       | +       | $\vdash$      | _        |          | 106      | _             | $\pm$   | _       | +        |          | Н        | $\dashv$      | _        |
|            | 7        | Н       |           | $\neg$   | $\neg$   | $\neg$        | $\neg$        | $\neg$        | _             | _        |          |        | 57       | $\rightarrow$ | +       | +      | $^{+}$  | +       | +       | $\vdash$      | _        |          | 107      | _             | $^{+}$  | +       | +        |          | $\vdash$ | $\dashv$      | _        |
|            | 8        | Н       | $\forall$ | $\neg$   | $\neg$   | $\neg$        | $\neg$        | $\neg$        | _             | ┥.       |          |        | 58       | $\rightarrow$ | +       | +      | $^{+}$  | +       | -       | $\overline{}$ | _        |          | 108      | _             | -       | _       | $^{-}$   |          | Н        | $\dashv$      | _        |
|            | 9        | Н       | $\forall$ | $\neg$   | $\neg$   | $\neg$        | $\dashv$      | $\neg$        | $^{+}$        | ┥.       |          |        | 59       | $\rightarrow$ | +       | +      | +       | +       | -       | $\overline{}$ | _        |          | 109      | $\dashv$      | -       | +       | +        | 1        | $\vdash$ | $\dashv$      | $\neg$   |
|            | 10       | Н       | $\dashv$  | $\neg$   |          | $\neg$        | $\dashv$      | $\neg$        | $^{+}$        | ┥.       |          |        | 60       | $\rightarrow$ | +       | +      | +       | +       | -       | $\vdash$      | -1       | $\vdash$ | 110      | $\dashv$      | $^{-}$  | +       | -        |          | Н        | $\dashv$      | $\neg$   |
|            | 11       | Н       | $\dashv$  | _        | _        | $\dashv$      | $\dashv$      | $\dashv$      | +             | Ⅎ        | $\vdash$ |        | 61       | +             | +       | +      | +       | +       |         | Н             | -1       | -        | 111      | $\dashv$      | +       | +       |          | +        | Н        | $\dashv$      | $\neg$   |
|            | 12       | Н       | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$      | $^{+}$        | $\dashv$ | $\vdash$ |        | 62       | +             | +       | +      | +       | $^{+}$  | +       | $\vdash$      | -1       | $\vdash$ | 112      | $\dashv$      | +       | +       | +        | +        | Н        | $\dashv$      | $\dashv$ |
|            | 13       | Н       | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$      | +             | $\dashv$ | $\vdash$ |        | 63       | +             | +       | +      | +       | $^{+}$  | 1       | Н             | $\dashv$ | $\vdash$ | 113      | $\dashv$      | +       | +       | 1        | +        | Н        | $\dashv$      | $\dashv$ |
|            | 14       | Н       | $\dashv$  | $\dashv$ | -        | $\dashv$      | $\dashv$      | $\dashv$      | +             | ⊣        | $\vdash$ |        | 64       | +             | +       | +      | +       | +       | +       | Н             |          | $\vdash$ | 114      | $\dashv$      | +       | +       | +        | +        | Н        | $\dashv$      | -        |
|            | 15       | Н       | $\dashv$  | $\dashv$ | -        | $\dashv$      | $\dashv$      | $\dashv$      | +             | ⊣        | $\vdash$ |        | 65       | +             | +       | +      | +       | +       | +       | $\vdash$      |          | $\vdash$ | 115      | $\dashv$      | +       | +       | +        | +        | Н        | $\dashv$      | -        |
|            | 16       | Н       | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$      | +             | $\dashv$ | $\vdash$ |        | 66       | +             | +       | +      | +       | +       | +       | $\vdash$      |          | $\vdash$ | 116      | +             | +       | +       | +        | +        | Н        | $\dashv$      | $\dashv$ |
|            | 17       | Н       | $\vdash$  | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$      | +             | $\dashv$ | $\vdash$ |        | 67       | +             | +       | +      | +       | +       | +       | $\vdash$      | $\dashv$ | $\vdash$ | 117      | -             | +       | +       | +        | +        | $\vdash$ | $\dashv$      | _        |
| _          | 18       | Н       | $\dashv$  | $\dashv$ | $\dashv$ | $\rightarrow$ | $\dashv$      | $\rightarrow$ | +             | -        | $\vdash$ |        | 68       | +             | +       | +      | +       | +       | +       | $\vdash$      | $\dashv$ | $\vdash$ | 118      | $\dashv$      | +       | +       | +        | -        | Н        | $\dashv$      | -        |
|            | 19       | Н       | -         | -        | -        | -             | $\dashv$      | -             | +             | -        | $\vdash$ |        | 69       | $\rightarrow$ | +       | +      | +       | +       | +       | $\vdash$      | -        | $\vdash$ | 119      | $\rightarrow$ | -       | +       | +        | $\vdash$ | Н        | $\rightarrow$ | _        |
| _          | 20       | Н       | $\vdash$  | $\dashv$ | -        | $\rightarrow$ | $\dashv$      | $\rightarrow$ | +             | -        | $\vdash$ |        |          | $\rightarrow$ | +       | +      | +       | +       | +       | $\vdash$      | -        | $\vdash$ | 120      | $\rightarrow$ | +       | +       | +        | -        | Н        | $\dashv$      | _        |
| -          |          |         | $\vdash$  | $\dashv$ | -        | $\rightarrow$ | $\dashv$      | $\rightarrow$ | -             | -        | $\vdash$ |        | 70       | -             | +       | +      | +       | +       | +       | $\rightarrow$ | -        | $\vdash$ |          | $\rightarrow$ | +       | +       | +        | -        | Н        | $\dashv$      | _        |
| 1          | 21       | =       | $\vdash$  | $\dashv$ | -        | -             | $\rightarrow$ | $\rightarrow$ | -             | -        | -        |        | 71       | -             | +       | +      | +       | +       | +       | $\rightarrow$ | -        | $\vdash$ | 121      | -             | -       | +       | +        |          | Н        | $\dashv$      | -        |
| 2          | 22       |         | _         | _        | _        | $\rightarrow$ | _             | $\rightarrow$ | $\rightarrow$ | -        | $\vdash$ |        | 72       | -             | +       | +      | +       | +       | +       | $\vdash$      | _        | $\vdash$ | 122      | $\rightarrow$ | +       | +       | $\vdash$ | _        | $\vdash$ | -             | _        |
| 3          | 23       | =       |           | _        | _        | -             | _             | -             | _             | 4        |          |        | 73       | _             | +       | +      | +       | $\perp$ | +       | $\vdash$      | _        | _        | 123      | _             | +       | _       | $\vdash$ |          | Ш        | _             | _        |
| 4          | 24       | =       | -         | _        | _        | -             | _             | -             | -             | 4        | _        |        | 74       | -             | +       | +      | +       | +       | +       | $\vdash$      | _        | $\vdash$ | 124      | _             | -       | -       | $\vdash$ |          | Н        | -             | _        |
| 5          | 25       | =       | $\Box$    | _        | _        | -             | _             | -             | _             | 4        |          |        | 75       | _             | +       | +      | +       | +       | +       | $\vdash$      | _        | $\vdash$ | 125      | _             | -       | _       | $\vdash$ |          | Ш        | _             |          |
| 6          | 26       | =       | $\Box$    | _        | _        | _             | _             | _             | _             | 4        |          |        | 76       | _             | _       | +      | +       | +       | $\perp$ | $\Box$        | 4        | $\vdash$ | 126      | _             | _       | _       | $\vdash$ |          | Ш        | $\dashv$      |          |
| 7          | 27       | =       |           | _        |          |               | _             | _             | _             | 4        |          |        | 77       | _             | _       | 4      | $\perp$ | ┸       | _       |               | _        | _        | 127      | _             | _       | _       | _        |          |          | _             |          |
| 8          | 28       | =       | $\Box$    | _        | _        | _             |               | _             | _             | 4        | _        |        | 78       | _             | _       | _      | $\perp$ | _       | $\perp$ |               | _        | $\vdash$ | 128      | _             | _       |         | _        |          |          | $\perp$       |          |
| 9          | 29       | =       |           | _        | _        | _             | _             | _             | _             | 4        | $\perp$  |        | 79       | _             | _       | _      | $\perp$ | $\perp$ | $\perp$ |               | 4        | $\vdash$ | 129      | _             | $\perp$ | $\perp$ | $\perp$  |          | Ш        | $\perp$       |          |
| 10         | 30       | =       |           | _        | _        |               |               | _             | _             | 4        | _        |        | 80       | _             | _       | _      | $\perp$ | _       | _       |               | _        | $\vdash$ | 130      | _             | _       |         | _        |          |          | $\perp$       |          |
|            | 31       | Ш       | $\Box$    | _        | _        | _             | _             | _             | $\perp$       | 4        | _        |        | 81       | _             | _       | _      | $\perp$ | $\perp$ | $\perp$ |               | _        | $\vdash$ | 131      | _             | _       | _       | _        |          | $\Box$   | $\perp$       |          |
| 16         | 32       | =       | Ш         | _        | _        | _             | _             | _             | _             | 4        | _        |        | 82       | 4             | 4       | 4      | $\perp$ | 1       | 1       | ш             | _        | $\vdash$ | 132      | _             | _       | +       | _        | 1        |          | _             |          |
| 11         | 33       | =       | Ц         | _        | _        | _             | _             | _             | 4             | 4        | _        |        | 83       | 4             | 4       | 4      | $\perp$ | 1       | 1       | ш             | _        | $\vdash$ | 133      | _             | _       | +       | 1        | _        |          | _             |          |
| 12         | 34       | =       | $\Box$    | _        | _        | _             | _             | _             | _             | 4        | _        |        | 84       | 4             | 4       | 1      | $\perp$ | 1       | 1       | ш             | _        | $\vdash$ | 134      | _             | _       | $\perp$ | 1        | _        |          | _             |          |
|            | 35       | Ш       | $\Box$    | _        | _        | 4             | _             | 4             | _             | 4        | _        |        | 85       | 4             | 4       | 4      | $\perp$ | 1       | $\perp$ | Ш             | _        | $\vdash$ | 135      |               | _       | $\perp$ | 1        |          |          | 4             |          |
|            | 36       | Ш       | Ц         | _        | _        | _             | _             | _             | _             | 4        | _        |        | 86       | 4             | 4       | 4      | $\perp$ | 1       | $\perp$ | Ш             | _        | $\vdash$ | 136      | _             | _       | +       | _        | _        |          | _             |          |
| 13         | 37       | =       |           |          |          | _             | _             | _             | _             | 4        | _        |        | 87       | _             | 4       | 4      | $\perp$ | $\perp$ | $\perp$ | Ш             | _        | $\vdash$ | 137      |               | _       | $\perp$ |          | _        |          | $\perp$       |          |
| 14         | 38       | =       | $\Box$    |          |          | $_{\perp}$    |               | $_{\perp}$    | _(            | 4        |          |        | 88       | _[            |         | 1      | 1       | L       | 1       | $\Box$        | _        |          | 138      | $\perp$       | 1       | 1       | 1        | _        | Ш        | $\perp$       | _        |
| 15         | 39       | =       |           |          |          |               |               |               | _             | 4        |          |        | 89       | _             | 4       | _      | $\perp$ | $\perp$ | $\perp$ |               | _        | $\perp$  | 139      |               | _       | $\perp$ |          |          | Ш        |               |          |
|            | 40       | Ш       | $\Box$    |          |          | $_{\perp}$    | I             | $_{\perp}$    | (             | _        |          |        | 90       | _[            |         | 1      | 1       | ľ       | 1       | $\Box$        | _        |          | 140      | $\perp$       |         | 1       |          | L        | Ш        | $\perp$       | _        |
|            | 41       |         |           |          |          | $\perp$       | $\Box$        | $\perp$       | $\perp$       | ╝        |          |        | 91       | $\perp$       | $\perp$ |        |         |         |         |               |          |          | 141      | $\Box$        |         | ഥ       | L        |          |          | $\Box$        |          |
|            | 42       |         |           |          |          | I             |               | I             | Т             |          |          |        | 92       | Т             | Τ       | Т      | Г       |         |         |               |          |          | 142      | T             | T       |         | Г        | Г        |          | I             | _        |
|            | 43       |         | П         |          |          | I             | T             | I             | Т             |          |          |        | 93       | Т             | Т       | Т      | Т       | Г       | Г       |               | 7        |          | 143      | T             | Т       | Г       | Г        | Г        |          | I             | _        |
|            | 44       |         |           |          |          | П             |               | П             | T             | 7        |          | Т      | 94       | T             | Т       | Т      | Т       | Т       | Т       |               | 7        |          | 144      |               |         | Т       | Г        |          |          | T             |          |
|            | 45       |         |           |          |          |               |               |               | $\neg$        | 7        |          |        | 95       | $\neg$        |         | Т      |         | Т       |         |               | 7        |          | 145      |               |         | Т       |          |          |          |               | _        |
|            | 46       | П       | $\neg$    |          | $\neg$   |               |               |               | $\neg$        | 7        |          |        | 96       |               | $\top$  |        |         | Т       |         |               | 1        |          | 146      | $\neg$        |         | Т       |          |          | П        |               | ╗        |
|            | 47       | П       | $\neg$    |          | $\neg$   | $\neg$        | $\neg$        | $\neg$        | $\neg$        | 7        |          | 1      | 97       | $\neg$        | $\top$  | Т      | Т       | Т       |         |               | 7        |          | 147      | $\neg$        |         | Т       |          |          | П        | $\neg$        | $\neg$   |
|            | 48       | П       | $\neg$    |          |          | $\neg$        | $\neg$        | $\neg$        | 1             | 7        |          |        | 98       | T             | $\top$  | $\top$ | $\top$  | T       |         |               | 7        |          | 148      | 7             |         | т       |          |          | П        | $\neg$        | ٦        |
|            | 49       | П       |           |          |          |               |               | $\neg$        | _             | ┪        |          |        | 99       | 1             | $\top$  | +      | $\top$  | T       |         |               | _        |          | 149      |               |         | т       |          |          | П        | $\neg$        | $\neg$   |
|            | 50       |         |           | $\neg$   |          |               | $\neg$        | _             | _             | ┥.       |          |        | 100      | $\neg$        | $\top$  | $^{+}$ | $\top$  | T       |         |               | _        |          | 150      | _             |         | $\top$  |          |          | $\vdash$ | $\dashv$      | $\neg$   |